

A PARTIAL BIBLIOGRAPHY ON STATISTICAL DESIGN
FOR THE 1968-1971 PERIOD

W. T. Federer

BU-821-M

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Abstract

A bibliography on statistical design, i.e., experiment design, treatment design, survey design, sequential design, modeling design, and measurements and measuring instruments, for the period 1968-1971, inclusive, is given. Twenty statistical journals were covered. These journals contain the majority of articles on statistical design.

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Introduction

A coverage of 20 scientific journals for the 1968-1971 period, inclusive, resulted in the attached bibliography. The journals covered were:

1. The American Statistician
2. The Annals of Mathematical Statistics
3. The Annals of the Institute of Statistical Mathematics
4. Applied Statistics (Journal of the Royal Statistical Society, Series C)
5. The Australian Journal of Statistics
6. Biometrie-Proximétrie
7. Biometrics
8. Biometrika
9. Biometrische Zeitschrift (Biometrical Journal)
10. Calcutta Statistical Association Bulletin (except for 1971)
11. Journal of the American Statistical Association
12. Journal of Combinatorial Theory
13. Journal of the Indian Society of Agricultural Statistics (Number 2 of 1971 was not available)
14. Journal of the Royal Statistical Society, Series B
15. Proceedings of the n^{th} Conference on the Design of Experiments in Army Research Development and Testing
16. Reports of Statistical Application Research

17. Revue de l'Institut International de Statistique
18. Sankhyā, The Indian Journal of Statistics, Series A
19. Sankhyā, The Indian Journal of Statistics, Series B
20. Technometrics

In addition, references were taken from a list compiled by B. L. Raktoe.

The articles considered were those related to statistical design and analysis for the following seven categories:

Experiment Design (ED) - The arrangement of treatments in an experimental investigation.

Treatment Design (TD) - The selection of treatments to be included in an experiment.

Measuring and Measurements (M) - The concepts and techniques associated with obtaining measurements on a given phenomenon in an investigation.

Sample Survey Design (SS) - The arrangement or allocation of the sampling units in a survey investigation.

Sequential Design (SD) - The selection of successive observations in a sequential investigation.

Modeling Design (MD) - The selection of points to obtain measurements in the formulation of models or of model building in an investigation.

Other (O) - Statistical articles relating to one or more of the above six categories, but not specifically related to any particular one.

One or more of the above symbols appears with each reference in order to indicate which area of statistical design is covered in the article. An analysis of these publications was made by Federer and Federer (1973), "A Study of Statistical Design Publications from 1968 Through 1971", The American Statistician 27(4):160-163. The purposes of their analysis was to ascertain if there was sufficient volume to warrant starting a new journal (JOURNAL OF STATISTICAL PLANNING AND INFERENCE) on statistical design, and to ascertain where design articles were being published.

The following bibliography is partial, as only 20 journals were covered.

The listing is alphabetical by author(s) and then chronological within author(s).

The pre-1968 period was covered in a book entitled BIBLIOGRAPHY ON EXPERIMENT AND TREATMENT DESIGN - PRE-1968 by W. T. Federer and L. N. Balaam. It was published by Oliver and Boyd, Ltd. for the International Statistical Institute. The 1972-1978 period for experiment design only was covered in the bibliography by the author, and published in three parts as:

Some recent results in experiment design with a bibliography -

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- II. Bibliography A-K, International Statistics Review 49 (1981) 95-109,
- III. Bibliography L-Z, International Statistics Review 49 (1981) 185-197.

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